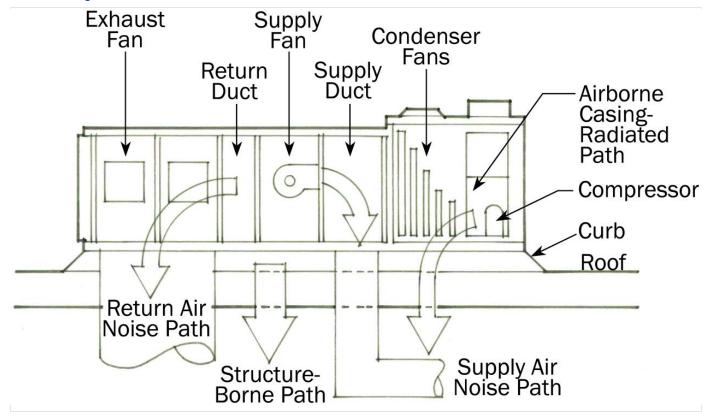
AEDG Implementation Recommendations: Noise Control

The Advanced Energy Design Guide (AEDG) seeks to achieve 30 percent savings over Standard 90.1-1999. This guide focuses on improvements to small office buildings, less than 20,000 square feet. The recommendations below are adapted from the implementation section of the guide, and should be used in cooperation with the whole document.* The full design guide is available from the ASHRAE website, <u>Advanced Energy Design Guide for Small Office Buildings</u>.

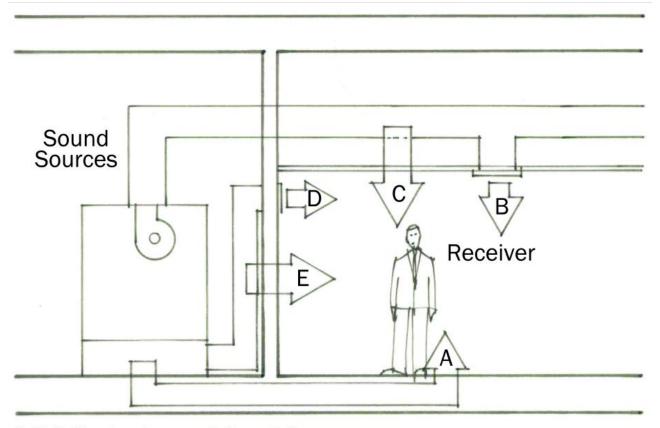


Noise Control

Acoustical requirements may necessitate attenuation of the supply and/or return air, but the impact on fan energy consumption should also be considered and, if possible, compensated for in other duct or fan components. Acoustical concerns may be particularly critical in short, direct runs of ductwork between the fan and supply or return outlet.

Avoid installation of the air-conditioning or heat pump units above occupied spaces. Consider locations above less critical spaces such as storage areas, toilet rooms, corridors, etc.





Path A: Structure-borne path through floor

Path B: Airborne path through supply air system

Path C: Duct breakout from supply air duct

Path D: Airborne path through return air system

Path E: Airborne path through mechanical equipment room wall

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